

Amendments to the Claims

1-2. (canceled)

3. (currently amended) A printer having an embedded supply consumption rate test capability, the printer being of the type that has a processor, and that requires at least a consumable supply to produce output; the printer comprising:

an operating interface having at least a marking agent test page control;

a print engine module that consumes the supply to produce a printed page from a formatted data file; and

a memory module storing a marking agent test page data file, said memory module being linked to said print engine module, said memory module being linked to said test page control whereby selection of said test page control will cause the printer device to transmit said test page data file to said print engine module for production of said test page by said print engine module; and

whereby the supply consumption rate may be determined by measuring the consumable supply consumed in producing said test page.

4. (original) A printer as defined by claim 3 wherein the printer further comprises:

a formatter linked to said print engine module for formatting incoming print data files; and

wherein said memory module is linked to said print engine module with a linkage that bypasses said formatter.

5. (original) A printer as defined by claim 4 wherein said memory module comprises a subcomponent of said formatter.

6. (original) A printer as defined by claim 3 wherein said marking agent test page comprises a page having at least a color image thereon.

7. (original) A printer as defined by claim 3 wherein said marking agent test page comprises a first and a second marking agent test page, said first marking

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agent test page having only black images thereon and said second marking agent test page having at least a color image thereon.

8. (original) A printer as defined by claim 3 wherein said memory module comprises an integrated circuit chip.

9. (original) A printer as defined by claim 3 wherein the printer further comprises an engine controller for controlling said print engine module, and wherein said memory module comprises a sub-component of said engine controller.

10. (original) A printer as defined by claim 3 wherein said operating interface comprises a user accessible control panel.

11. (original) A printer having an embedded marking agent consumption rate test capability, the printer comprising:

- a user accessible control panel having a plurality of controls for controlling the printer, said plurality of controls comprising at least a first marking agent test page control;

- a print engine module for producing a printed page from a formatted data file;

- a formatter linked to said print engine module, said formatter for formatting incoming unformatted print data files and transmitting said formatted print data files to said print engine module for printing;

- a memory module linked to said print engine module with a linkage that bypasses said formatter, said memory module storing at least a first marking agent test page data file, said first marking agent test page data file comprising instructions for printing a marking agent test page, said memory module linked to said first marking agent test page control whereby selection of said first marking agent test page control will cause said memory module to print said first marking agent test page; and

whereby the marking agent consumption rate may be determined by measuring the marking agent consumed in producing said first marking agent test page.

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12. (original) A printer as defined by claim 11 wherein:

said memory module further storing a second test page data file, said first test page data file comprising data for printing a first test page comprising a plurality of black characters, and said second test page data file comprising data for printing a second test page comprising at least a color image;

said plurality of controls further comprising a second marking agent test page control; and

said memory module is linked to said second marking agent test page control, whereby selection of said second marking agent test page control will cause said memory module to transmit said second marking agent test page data file to said print engine module for printing of said second marking agent test page.

13. (original) A printer as defined by claim 11 wherein said memory module comprises a sub-component of said formatter.

14. (original) A printer as defined by claim 11 wherein said memory module comprises a sub-component of said print engine module.

15. (original) A printer as defined by claim 11 wherein said memory module comprises a sub-component of said user accessible control panel.

16. (original) A printer having an embedded marking agent consumption rate test capability, the printer comprising:

a user accessible control panel having a plurality of controls for controlling the printer, said plurality of controls comprising at least a marking agent test page control;

a print engine module for producing a printed page from a formatted data file;

a formatter being linked to said print engine module, said formatter for formatting incoming unformatted print data files and transmitting formatted print data files to said print engine module for printing;

a memory module being linked to said print engine module via a linkage that bypasses said formatter, said memory module being linked to said marking agent test page control;

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at least one test page data file stored in said memory module, said test page data file comprising instructions for printing of a marking agent test page; and

a computer program product comprising computer executable instructions embedded in a computer readable medium, said computer program product being linked to said memory module, said computer program product for:

causing said memory module to accept a prompt from said marking agent test page control;

causing said memory module to retrieve said at least one marking agent test page data file after receiving said prompt;

causing said memory module to transmit said at least one marking agent test page data file to said print engine module via said linkage that bypasses said formatter for printing of said marking agent test page; whereby a marking agent consumption rate may be determined by measuring marking agent consumed in printing said marking agent test page.

17. (original) A printer as defined by claim 16 wherein:

said at least a marking agent test page control comprises a first and a second marking agent test control;

said memory module is linked to each of said first and second marking agent test page controls;

said at least a marking agent test page data file comprises a first and a second marking agent test page data file stored in said memory module, said first marking agent test page data file for producing a first marking agent test page comprising black images, said second marking agent test page data file for producing a second marking agent test page comprising at least a color image;

and wherein said computer program product is further for:

causing said memory module to transmit said first marking agent test page data file to said print engine module via said linkage that bypasses said formatter after receipt of a prompt from said first test page marking agent control; and

causing said memory module to transmit said second marking agent test data file to said print engine module via said linkage that bypasses said

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formatter after receipt of a prompt from said second marking agent test page control for printing of said second marking agent test page.

18-20. (canceled)

21. (previously presented) A method for a printer having a formatter, comprising:

printing a test page without using the formatter; and
determining a rate of consumption of a marking agent based on the amount of marking agent consumed printing the test page.

22. (canceled)

23. (currently amended) A computer program product comprising computer executable instructions embedded in a computer readable medium, said computer program product for:

printing a test page without using a the formatter; and
determining a rate of consumption of a marking agent based on the amount of marking agent consumed printing the test page.

24. (canceled)

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